

# PROG2

```
CREATE TABLE SALESMAN (  
SALESMAN_ID INT PRIMARY KEY,  
NAME VARCHAR(20),  
COMMISSION INT,  
CITY VARCHAR(20));
```

```
CREATE TABLE CUSTOMER(  
CUSTOMER_ID INT PRIMARY KEY,  
CUST_NAME VARCHAR(50),  
CITY VARCHAR(20),  
GRADE INT,  
SALESMAN_ID INT,  
FOREIGN KEY (SALESMAN_ID) REFERENCES SALESMAN(SALESMAN_ID) ON DELETE  
CASCADE);
```

```
CREATE TABLE ORDERS(  
ORD_NO INT PRIMARY KEY,  
PURCHASE_AMT DECIMAL(10,2),  
ORD_DATE DATE,  
CUSTOMER_ID INT,  
SALESMAN_ID INT,  
FOREIGN KEY (CUSTOMER_ID) REFERENCES CUSTOMER(CUSTOMER_ID) ON DELETE  
CASCADE,  
FOREIGN KEY (SALESMAN_ID) REFERENCES SALESMAN(SALESMAN_ID) ON DELETE  
CASCADE);
```

```
INSERT INTO SALESMAN VALUES (1000, 'JOHN', 25, 'BANGALORE');  
INSERT INTO SALESMAN VALUES (2000, 'RAVI', 20, 'BANGALORE');  
INSERT INTO SALESMAN VALUES (3000, 'KUMAR', 15, 'MYSORE');  
INSERT INTO SALESMAN VALUES (4000, 'SMITH', 30, 'DELHI');  
INSERT INTO SALESMAN VALUES (5000, 'HARSHA', 15, 'HYDERABAD');
```

```
INSERT INTO CUSTOMER VALUES (10, 'PREETHI', 'BANGALORE', 100, 1000);  
INSERT INTO CUSTOMER VALUES (11, 'VIVEK', 'MANGALORE', 300, 1000);  
INSERT INTO CUSTOMER VALUES (12, 'BHASKAR', 'CHENNAI', 400, 2000);  
INSERT INTO CUSTOMER VALUES (13, 'CHETHAN', 'BANGALORE', 200, 2000);  
INSERT INTO CUSTOMER VALUES (14, 'MAMATHA', 'BANGALORE', 400, 3000);
```

```
INSERT INTO ORDERS VALUES (50, 5000, '2017-05-04', 10, 1000);  
INSERT INTO ORDERS VALUES (51, 450, '2017-01-20', 10, 2000);  
INSERT INTO ORDERS VALUES (52, 1000, '2017-02-24', 13, 2000);  
INSERT INTO ORDERS VALUES (53, 3500, '2017-04-13', 14, 3000);  
INSERT INTO ORDERS VALUES (54, 550, '2017-03-09', 12, 2000);
```

```
Q1: SELECT GRADE,COUNT(DISTINCT CUSTOMER_ID) FROM CUSTOMER  
GROUP BY GRADE  
HAVING GRADE >(SELECT AVG(GRADE)  
FROM CUSTOMER WHERE CITY='BANGALORE');
```

```
Q2:  
SELECT SALESMAN_ID, NAME FROM SALESMAN A  
WHERE 1<(SELECT COUNT(*)  
FROM CUSTOMER  
WHERE SALESMAN_ID=A.SALESMAN_ID);
```

Q3:

```
SELECT SALESMAN.SALESMAN_ID, NAME, CUST_NAME, COMMISSION FROM  
SALESMAN, CUSTOMER  
WHERE SALESMAN.CITY = CUSTOMER.CITY  
UNION  
SELECT SALESMAN_ID, NAME, 'NO MATCH', COMMISSION FROM  
SALESMAN  
WHERE NOT CITY = ANY  
(SELECT CITY  
FROM CUSTOMER)  
ORDER BY 2 DESC;
```

Q4:

```
CREATE VIEW ELITESALESMAN AS  
SELECT B.ORD_DATE, A.SALESMAN_ID, A.NAME FROM SALESMAN A, ORDERS B  
WHERE A.SALESMAN_ID=B.SALESMAN_ID  
AND B.PURCHASE_AMT=(SELECT MAX(PURCHASE_AMT) FROM  
ORDERS C WHERE C.ORD_DATE=B.ORD_DATE);
```

Q5:

```
DELETE FROM SALESMAN  
WHERE SALESMAN_ID=1000;
```